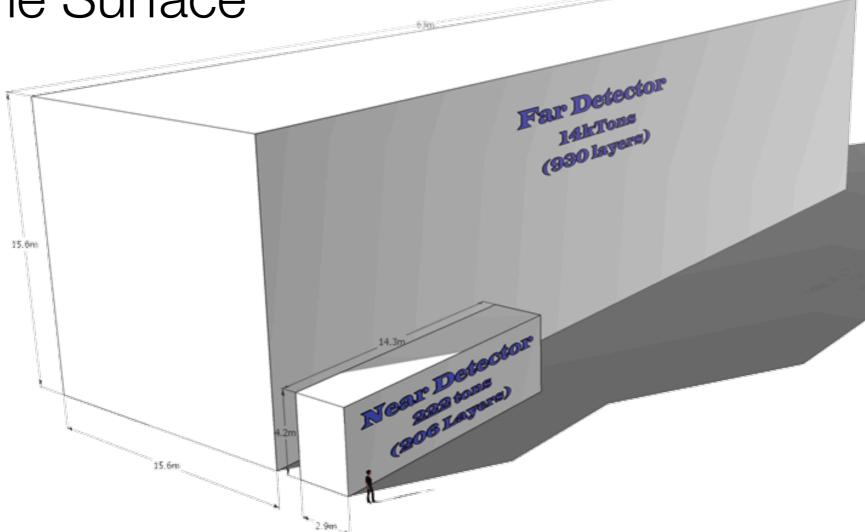
Commissioning of the NOvA Near Detector On the Surface

Peter Shanahan Fermilab 20 December 2010

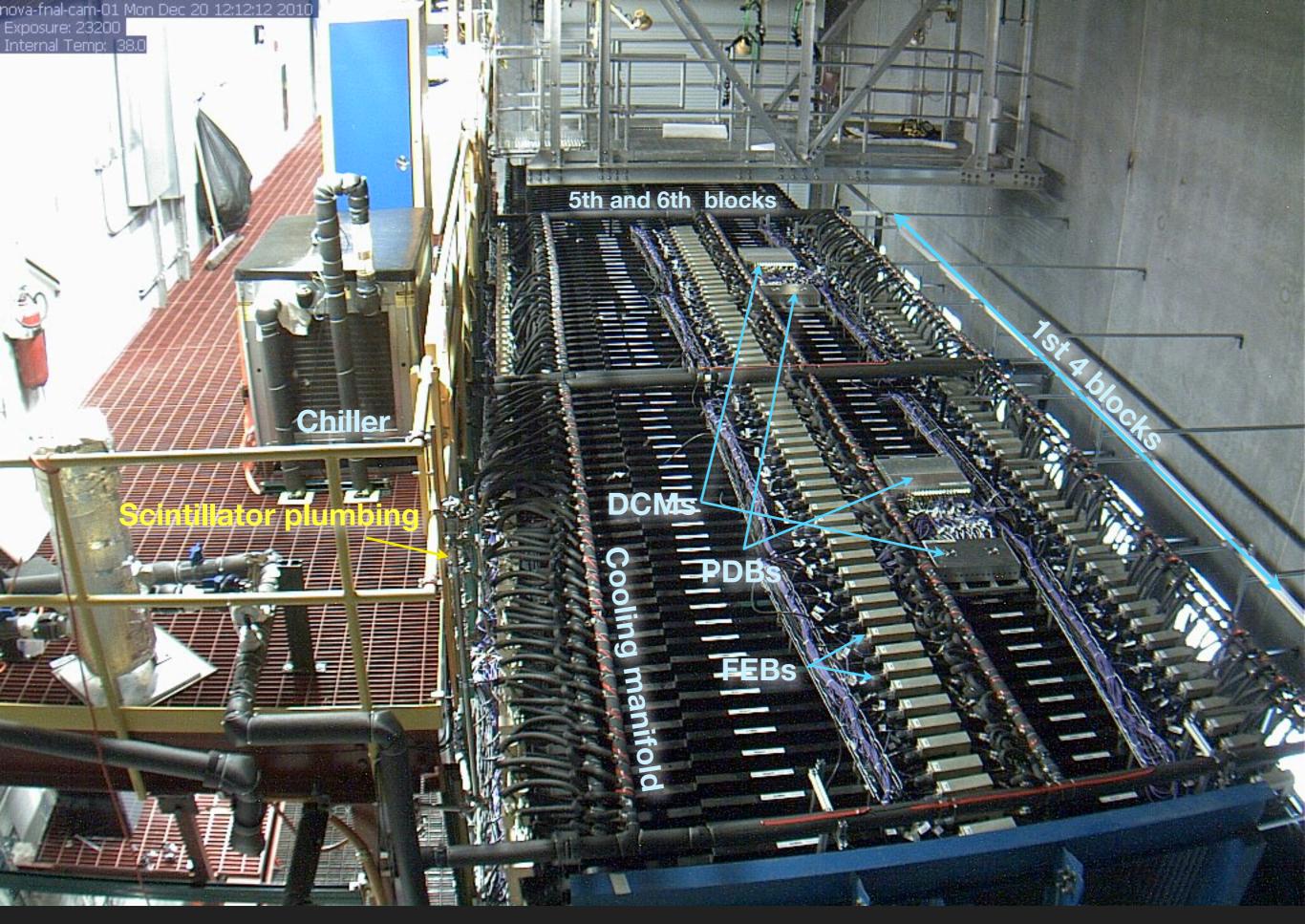
NOvA

Near Detector On the Surface

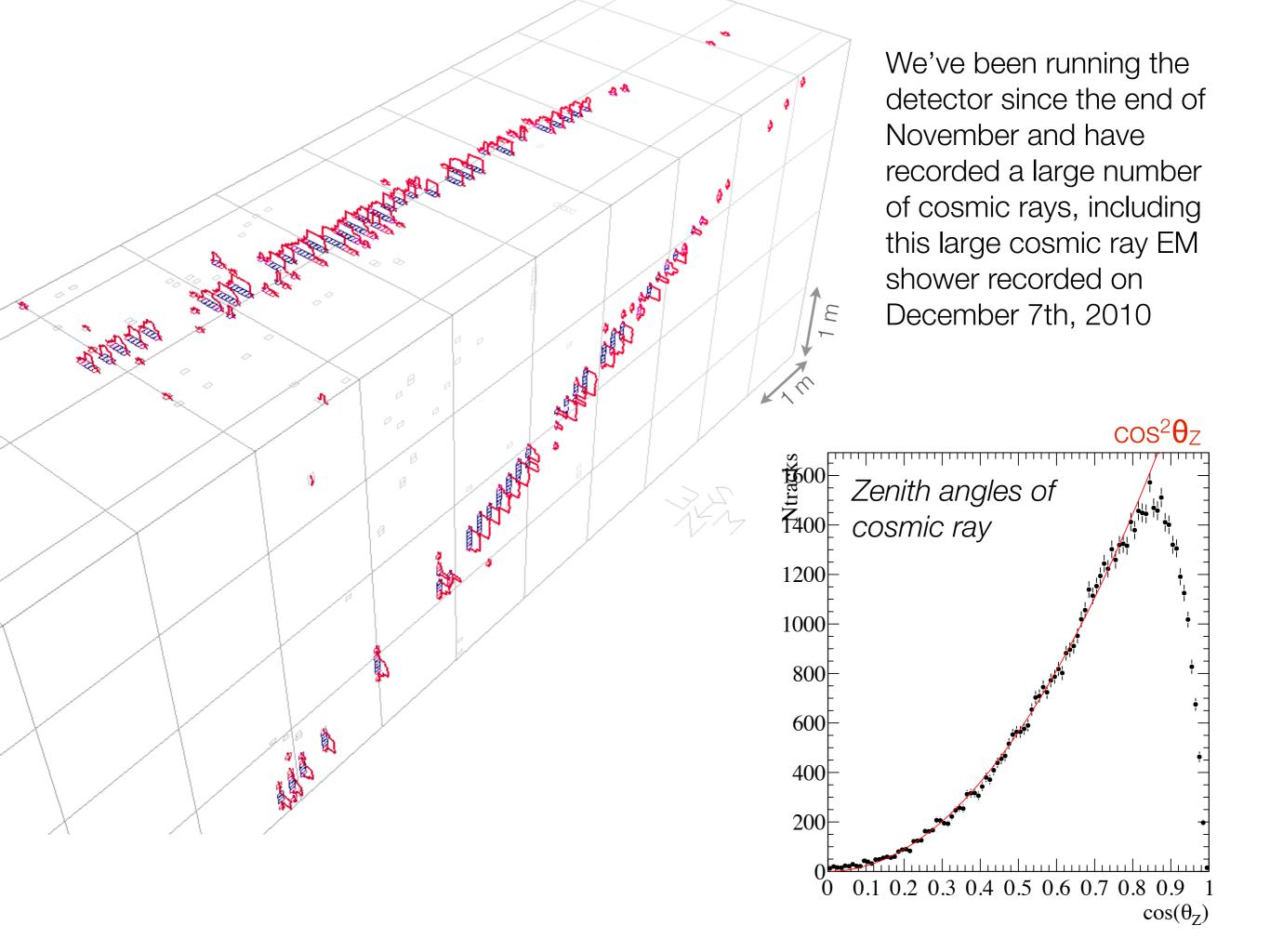
During summer and fall NOvA has been building its near detector in a surface building near the MINOS surface building



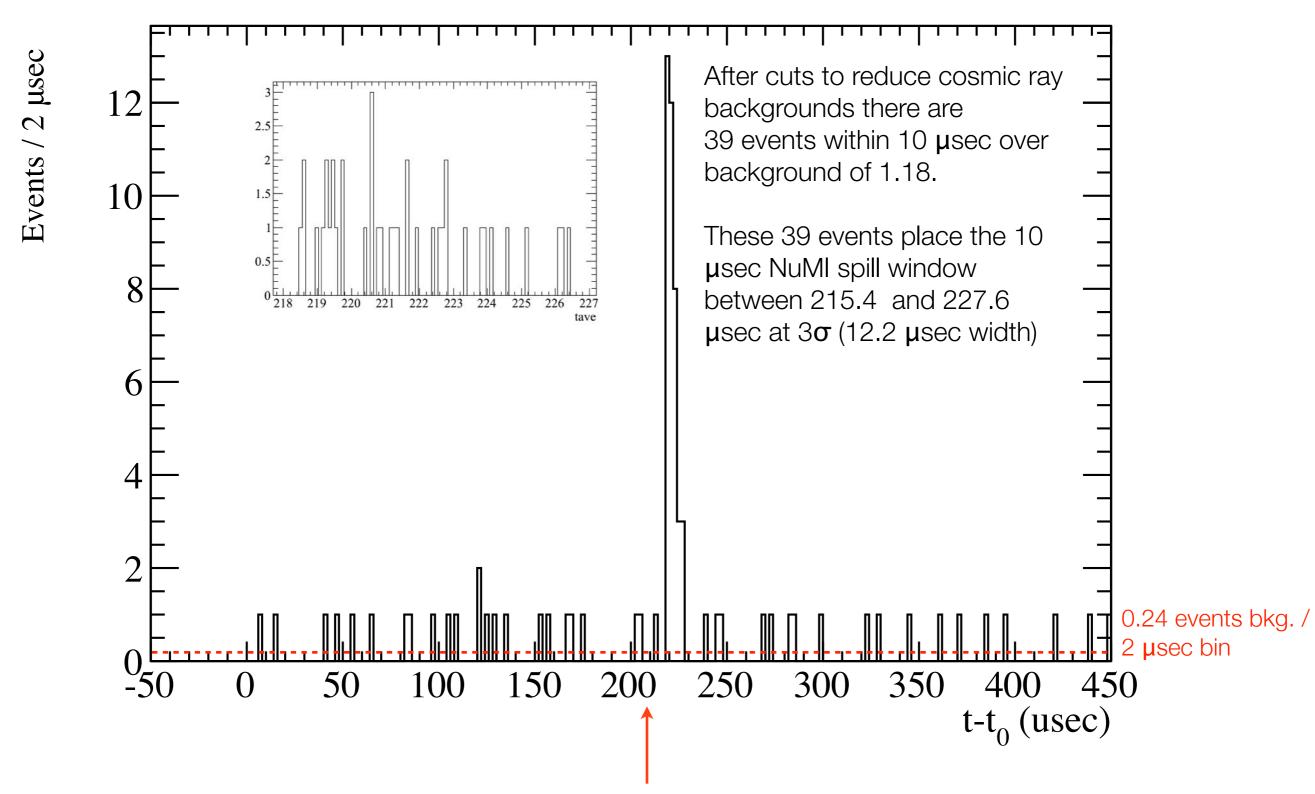
- Primary motivation is to make a full system test of installation and integration to prepare for construction of the far detector at Ash River
- Sees NuMI beam at an off-axis angle of 110 mrad. Will provide useful neutrino data for physics readying calibration, reconstruction, and analysis for far detector data



Four blocks filled with scintillator and operational

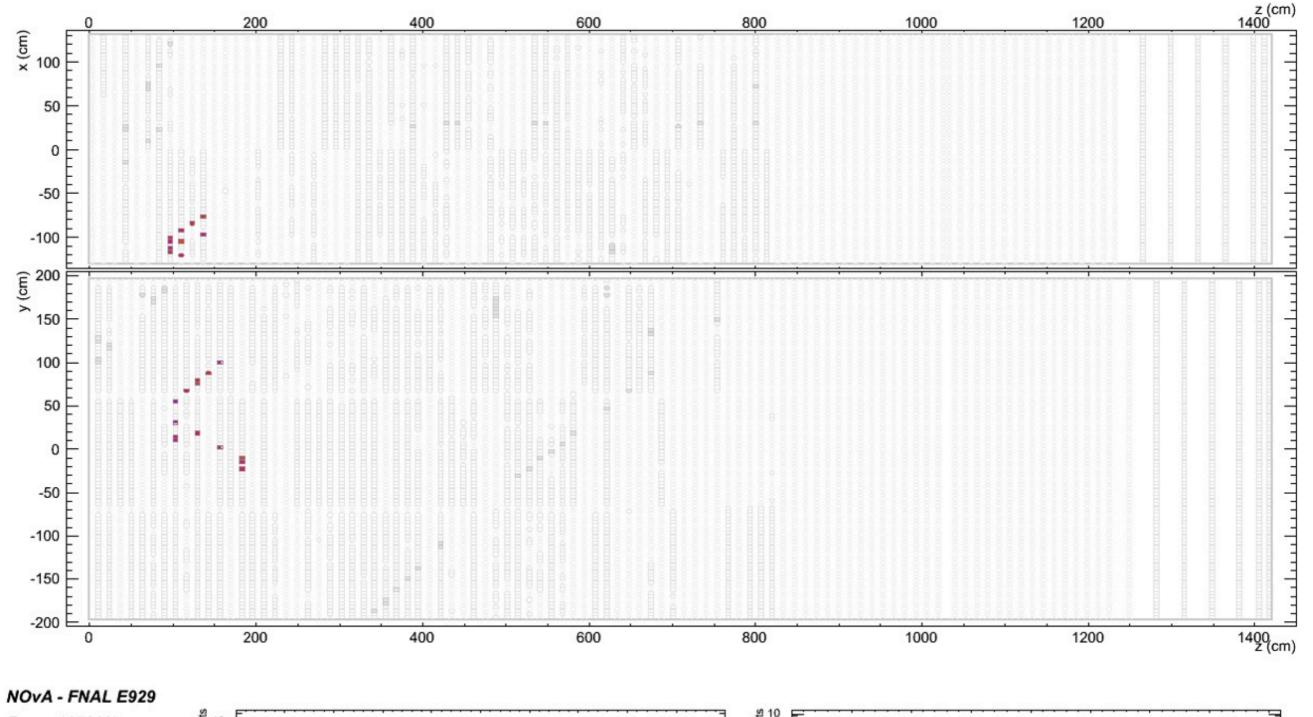


Timing in NuMI Spill

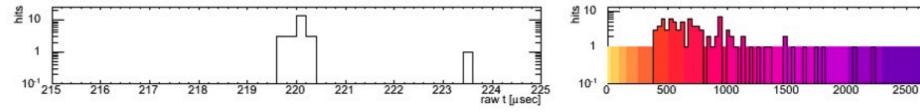


"Dead reckoned" earliest possible arrival time of neutrinos relative to MI trigger signal is 208 μ sec

1st Neutrino Event on December 15th

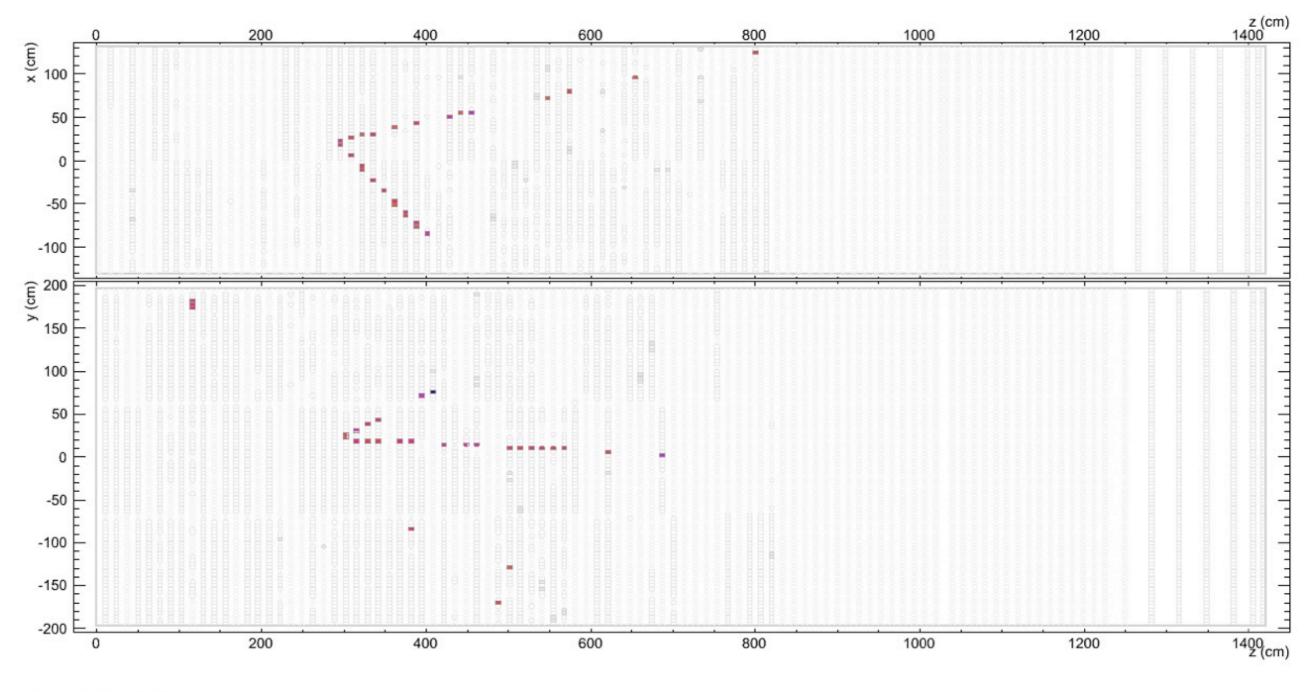


Run: 10796/1 Event: 2160



4000 q [ADC]

Another example recorded last night



NOvA - FNAL E929

Run: 10868/4 Event: 175773

